

Apparatus for Determining Surface ... Z/009/61/000/002/002/008
E112/E453

Value	P ₀	P ₁	P _s	V _b	V _{mb}	V _d
Change	+1.72%	-1.04%	+0.32%	+0.4%	+0.04%	-0.22%

It is concluded that the mean error of v_m , resulting from inaccuracies in the calibration of the apparatus and faulty readings of the experimental values will not exceed 2%. (A mean error of 5% is quite acceptable for the reproducibility of absorption work.) The effects of impurities of mercury, sample and apparatus were not determined. Impurities of the gas will not influence the results up to a concentration of 1%, unless they take part in a chemical reaction. Maintaining constant temperature is of utmost importance but temperature stability of $\pm 1^\circ\text{C}$ will be sufficient. Surface areas of samples of TiO_2 of varying quantities and volumes were measured to confirm the efficiency of the apparatus. Two samples of argon of different degree of purity were used. The pressures were read by naked eye, calibration of the apparatus and determination of volumes was conducted with an accuracy of 0.1 cm^3 and thermostating with $\pm 0.2^\circ\text{C}$. Results of measurements were presented graphically, showing reproducibility of the determinations. Card 4/6

Apparatus for Determining Surface ... E112/2453 Z/009/61/000/002/002/008

with a limit of error of 4%, which was in complete agreement with theoretical considerations. The authors have determined the surface areas of more than 100 samples and claim perfect and simple functioning of the apparatus. Acknowledgments are expressed to Professor, Doctor Eng. V. Daneš, Eng. P. Jára, J. Nováková and to members of ÚFCH ČSAV for advice and assistance and particularly to V. Růžička and J. Saňek. There are 3 figures, 2 tables and 2 references: 1 Czech and 1 non-Czech.

ASSOCIATION: Ústav fyzikální chemie ČSAV, Praha
(Institute of Physical Chemistry, ČSAV)

SUBMITTED: March 5, 1959

Card 5/6

Apparatus for Determining Surface...

Z/009/61/000/002/002/008
E112/E453

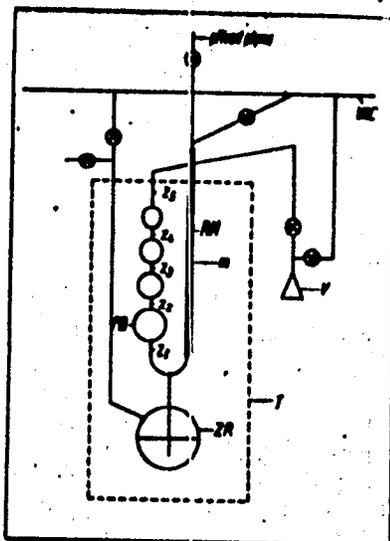


Fig. 1.

Card 6/6

Obv. 1. Adapted operators

BENEŠOVÁ, V.; HEROUT, V.; SOŠNÍK, F.

On terpenes. Part 128: The existence of α - and β -humulene. Coll
Cz Chem 26 no.7:1832-1838 JI '61.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague.

(Terpenes) (Humulene)

RENESOVA, V.; HEROUT, V.; KLINE, W.

On terpenes. Part 134 : Configuration of hydroxyl group in telekin.
Coll Cz Chem 27 no.2:498-500 F '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak
Academy of Sciences, Prague and Westfield College, University of
London, England.

BENEŠOVÁ, V.; HEROUT, V.; ŠORM, F.

On terpenes. Pt. 170. Coll Cz Chem 29 no.12:3096-3101 D '64.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague.

BENESOVA-TALANDOVA, Marie, inz. JSc.

Preparing samples of ground dressed ore for microscopic examination. Rudy 13 no.4:120-121 Ap '65.

1. Institute of Ore Research, Prague.

CZECHOSLOVAKIA

BENESOVA-TALAMDOVA, M.

Institute for Ore Research (Ustav pro vyzkum rud), Prague
Prague, Časopis pro mineralogii a geologii, No 1, 1965, pp.
83-86

"Find of Clausthalite in Moravia."

M

2.6

Powder Metallurgy [in] 1949. P. Benzenberg (*Metall*, 1950, 4, (15/16), 323-330).—A review of powder-metallurgy developments during 1949, dealing with: powder production; theories of pressing and sintering; apparatus and processes; compacts of high-m.p. metals and rare metals; hard metals; electrical-contact materials; porous materials for bearings and filters; sintered iron, steel, and magnetic materials; ceramic-metal products. 107 references.—K. N.

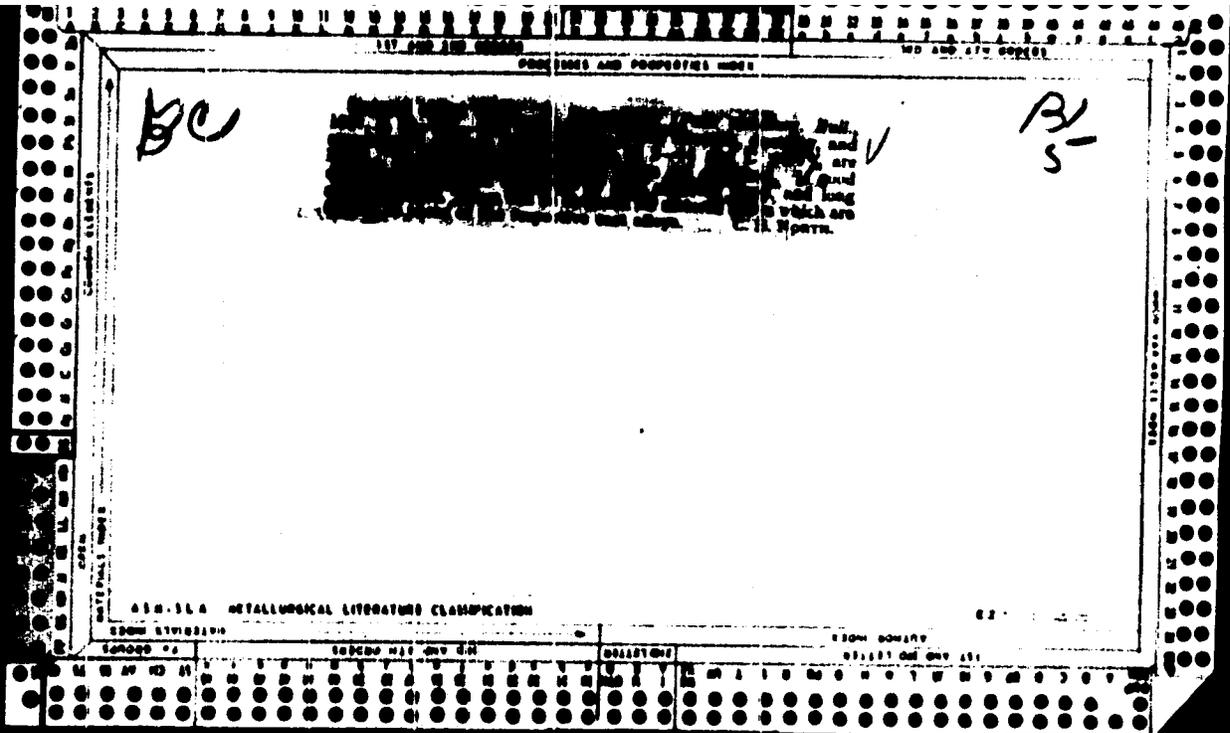
Cyber. 1957

A 6 S

Heat- and oxidizing-resistant materials. R. KIERMAN and P. J. BARNETT, *J. Steelhead*, 42 (4) 97-116 (1951). — The present status of research and techniques for producing materials for use at very high temperatures is reviewed, and the properties of such materials and ceramic alloys are described. The progress of research in this field is reviewed. The present techniques seem to promise best success because partly ceramic materials, though heat resistant, are only slightly resistant to temperature fluctuations. Numerous tables show currently used heat and oxidizing materials and their behavior. The following table gives recently developed heat-resistant protective layers which are deposited on other materials by precipitation from the gaseous phase:

Protective layer	Peak point	Density	Oxidation resistance
Si oxide	1925 °C	White, glass hard	1400-1700 °C
Cr boride	> 2200	"	~1700
Ti boride	2000	"	~1400
Cr boride	> 1800	"	~1700
Ta boride	> 1800	Moderately deformable	1100-1400
Mo boride	> 1800	Slightly deformable	> 1700
W boride	> 2200	Brittle	~1700
Si boride	1713	glass hard	> 1700
Al oxide	2400	"	"
Cr oxide	1900	"	"
Zr oxide	2700	"	"

* Resistant in literature but not protective because of stability. AS references M 11A



BTR

36

926.4 Results of New Investigations in the Field of High-
Melting Metallic Hard Materials: Carbides, Nitrides, Borides,
and Silicides. (In German.) R. Kieffer and F. Bonevsky
Metall. v. 6, Apr. 1952, p. 171-176.
Describes methods of production, properties, systems, and tech-
nical applications of the above on the basis of the literature.
Tables and graphs. 51 ref.

CA

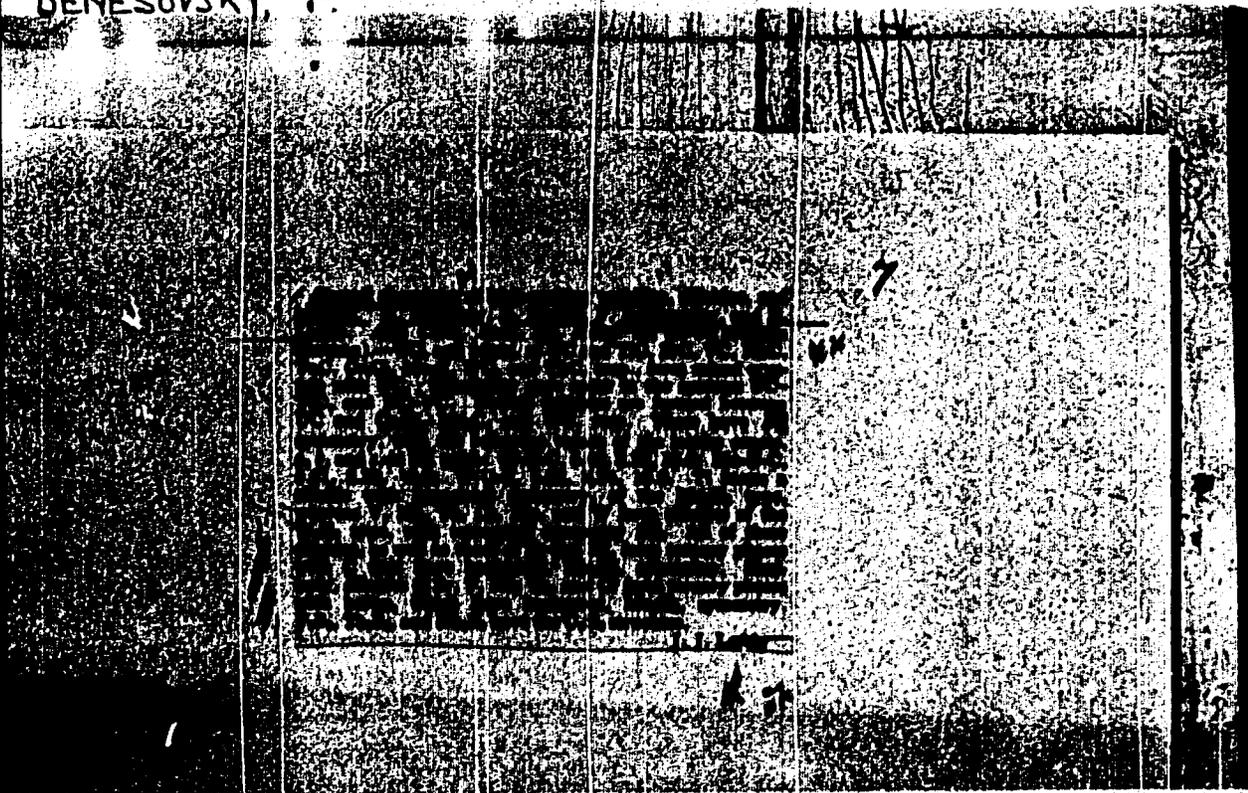
New research results in the realm of high-melting metallic hard materials. R. Kieffer and J. Hegerovský (Reutte-Tirol, Austria). *Metall* 6, 243 (1972); cf. C.A. 66, 6671a. In pure or alloyed form the *borides, silicides, nitrides, and carbides* of the transitional metals of groups 5 to 8 of the periodic system have numerous applications for heavy-duty cutting tools, turbine blades and nozzles, and for other high-temp. service. The production of these hard-material forms is almost exclusively by powder metallurgical methods. 117 references. H. Stuerz

CA

Uppercase - 1

Two parallel layers of oxidized molybdenum trioxide.
Prepared by H. A. Vinnik (Moscow Phys. Inst.,
Sverdlovsk, Austria). *Dokl. Akad. Nauk SSSR*, 188-89
(1969).—The MoO₃ obtained industrially by sublimation
consists of 2 layers which are separated through 1. differences.
They differ mainly in phys. properties. In the electron
microscope the heavy layer appears as spheres, the light as
needlelike platelets. Both layers give identical pictures
after vacuum sublimation. H. P. Mark

BENESOVSKY, F.



COUNTRY : YUGOSLAVIA H
CATEGORY : Chemical Technology. Chemical Products and
Their Applications. Food Industry.
ABS. JOUR. : RZKhin., No. 19, 1959, No. 69633
AUTHOR : Benet, K.
TITLE : Aluminum Foil - Its Manufacture, Application
and Effect in Packaging and Wrapping of the
Food Products
ORIG. PUB. : Ambalaza, 1953, 5, No 5-6, 113-116
ABSTRACT : Review of the production methods, of progress
and shortcomings in the manufacture, techno-
logy of different types aluminum foil. Types
of packaging made of aluminum foil and used
for food products and for certain non-food
products are described. Thin aluminum foil is
used for wrapping chocolate bars, candy,
cigarettes and other tobacco products, butter,
margarine, cheese, pies, dry soup concentrates
and gravies. From aluminum foil, having
0.05-0.10mm thickness, are made containers
CARD: 1/2

COUNTRY : H
ORIGIN :
REF. JOUR. : RZIKHMA., No. 19, 1959, No. 09033
AUTHOR :
TITL. :
SUBJ. :
ORIG. PUB. :
ABSTRACT : for mayonnaise, honey, pastes, salads and
Cont'd jellies. Milk, beer mineral water, etc may be
sold in bottles made of aluminum. The alumi-
num tubing (lacquered inside or un-lacquered)
is used for packaging of paste-like products-
- fish pastes, patés, mayonnaise, melted
cheeses, etc. Aluminum cans and drums are
used for transporting milk. Large aluminum
barrels (5-250^l capacity) are used for the
storage of beer. Use of aluminum is also ex-
tensive in the manufacture of caps, stoppers
and other devices for various type containers.
CARD: 2/2 -- V. Gurni.

RUSSIAN/Japanese and Animal Physiology. Nervous System. General
Problems.

2

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93579.

Author : Denetst, Gr., Denetato, A., Vitebschi, V.

Inst : AS RPR

Title : A Test for Phagocytic Provocation in the Investigation
of Vegetative Centers of the Diencephalon.

Orig Pub: Bul. stint. Acad. RPR. Sec. med., 1956, 8, No 3,
603-623

Abstract: 1½ hours after a 10 minute-long irradiation by ultra-
short-waves of the hypothalamic area of a dog, one
found an increase in the number of blood leucocytes
and phagocytic activity (P.), hyperglycemia and a
rise in blood pressure. This so-called provoked
phagocytic reaction (PPR) was reduced by first ad-

Card : 1/3

94

RUMENEL/Buman and Animal Physiology. Nervous System. General Problems.

T

Obs Jour: Ref Zhur-Biol., No 20, 1958, 93579.

administering a large dose of luminal to the animal; consequently, this stimulated the hypothalamus. PPR was observed after both sides of the heads of healthy adults and children (except for nurslings) were irradiated but was absent in patients with organic affections of the diencephalon (for instance, in craniopharingioma or basal neuroangioma, etc). The aggravation of leukocytosis and B. was observed in both pituitary insufficiency and when hyperglycemia was absent, which attests to the fact that PPR is immediately produced in the hypothalamic-osteomedullary tract without the participation of the pituitary gland. With the aid of PPR it is possible to differentiate between organic changes of the diencephalic syndrome

Card : 2/3

RUSSIAN/Japan and Animal Physiology. Nervous System. General
Problems.

T

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93579.

and pituitary insufficiency. In thyroid and parti-
cularly bone marrow insufficiencies PFM is negative;
in brain cortical irritation and neurosis negative
or inconsistent results may be produced. -- F.L. Dukh.

Card : 3/3

BENETATO, Antoaneta; BUBUIANU, Elena; STEFANESCU, Elisabeta

Variations of the urinary excretion of the free sympathomimetic amines in the sick suffering from primitive glaucoma. Studii cerc fiziol 4 no.4:467-475 '59. (EKAJ 9:9)

1. Institutul de fiziologie normala si patologica "Prof. Dr. D.Danielopolu" al Academiei R.P.R.

(GLAUCOMA)

(URINE)

(EXCRETION)

(SYMPATHOMIMETIC SUBSTANCES)

(AMINES)

(ADRENALIN)

(ARTERENOL)

1982710, Inceput

the role of endocrine and diencephalic imbalances in the genesis
of glaucoma. Fiziol. norm. pat. 11 no.2:126-132 Mr-Apr '65.

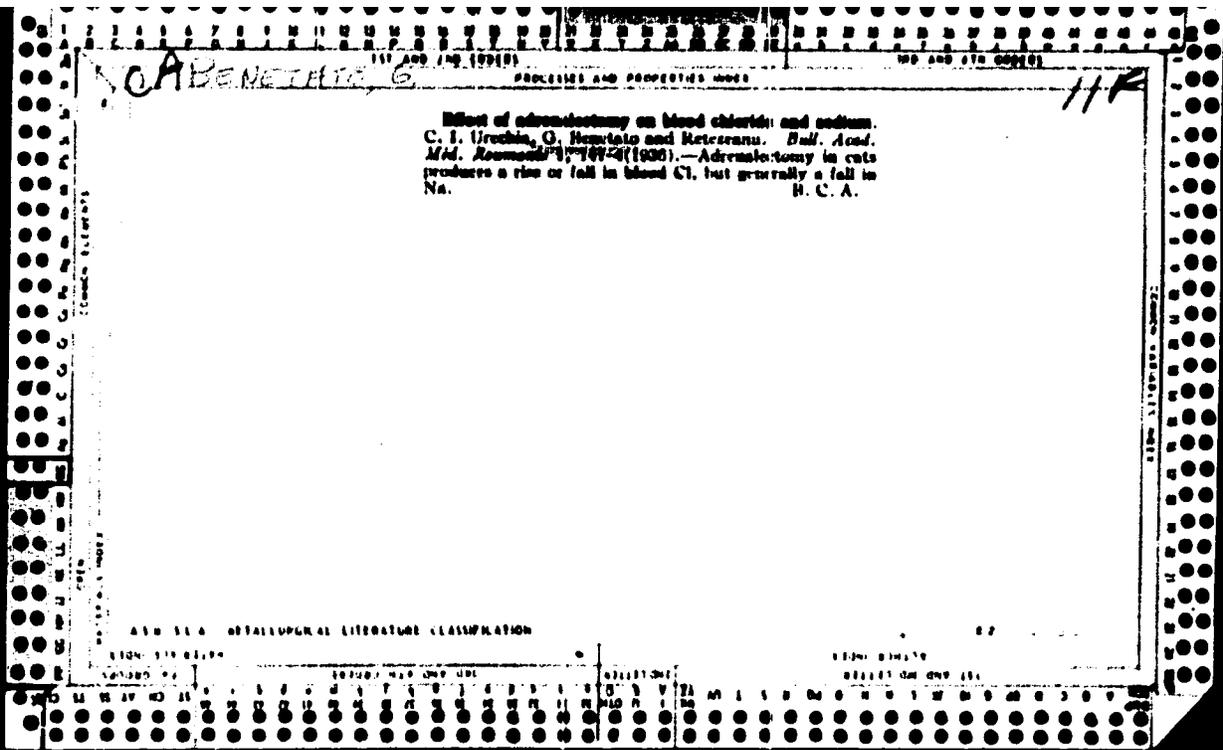
1. Clinica de oftalmologie, Institutul medico-farmaceutic, Bucuresti.

BENTHAIG, Antoneta; VRINGH-III, J.; CEPLER, A.; LAURELLO, Antonio
Brescia, It.

Relation between the amplitude of the ECG waves and TQT in pho-
topia and aortic examination of normal subjects and patients
with hemodynamic disorders and vascular sclerosis. Stud. cardi-
fiziol. 9 no.5:135-144 1961

BENNETTIO, G., coord.; CARALINA, S.; STEFAN, Maria; CHIARI, Renato;
~~1975, G.~~

Behavior of some mitochondrial enzyme systems under the influence of metal ions. Stud. cercet. Biol. 9 no. 1:175-180 1964.



BENETATO, Gr.; BACIU, I.; OPRISIU, C.; VITBSKI, V.

Effect of convulsive shock on the mobilization of antibodies and on the stimulation of phagocytosis; experimental study. Bul. stiint., sect. med. 6 no.3:509-518 July-Sept 54.

1. Membru correspondent al Academiei R.P.R. (for Benetato) Comunicare prezentata in Sesiunea Sectiunii de Stiinte medicale a Academiei R.P.R. din 22-26 ianuarie 1954.

(ANTIGENS AND ANTIBODIES

antibody form. in dogs inoculated with *Bacillus typhi murium*, eff. of convulsive shock)

(CONVULSIONS, experimental

eff. on antibody form. & phagocytosis in dogs inoculated with *Bacillus typhi murium*)

(PHAGOCYTOSIS

eff. of convulsive shock, in dogs inoculated with *Bacillus typhi murium*)

BENNETTO, G.; BACIU, I.; OPRISIU, C.; VASILESCU, V.; BUDAI, R.

Central action of certain hormones; isolated-head method of experimental study. II Central action of adrenalin. Bul.stint., sect. med. 6 no.4:735-749 Oct-Dec '54. (MLA 8:8)

(CENTRAL NERVOUS SYSTEM, eff. of drugs on adrenalin, on vasomotor & glycoregulatory centers in dogs)

(EPINEPHRINE, eff. on vasomotor & glycoregulatory centers, bulbo-encephalic, in dogs)

BENETATO, G.

Achievements and tasks in the field of medicine.

p. 91
Vol. 4, no. 2, 1955
ANALELE
Bucuresti

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956

BENETATO, G., and others.

Central action of certain hormones; experimental research with the "isolated head" method. Note 3. Central action of pituitrin and secretin. p. 1187. COMUNICARILE. Bucuresti. Vol. 5, no. 8, Aug. 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, no. 7, July 1956.

Benetato, GR.

Category: Rumania/General Division. General Problems. Philosophy. Metho- A-1
dology.

Abs Jour: Referat Zh-Biol., No 9, 10 May 1957, 34834

Author : Benetato, GR.

Inst : not given

Title : The Contribution of I. P. Pavlov to the Development of Physiology

Orig Pub: Fiziol. norm. si patol., 1956, 3, No 2, 143-153

Abstract: No abstract.

Card : 1/1

-11-

EXCERPTA REVISTA DE PSICHOLOGIA
 BENETATO, G.
 260. NEW DATA ON CENTRAL NERVOUS MECHANISMS OF REGULATION OF FUNCTIONS IN THE LIGHT OF THE MONISTIC CONCEPTION OF ORGANIZATION AND FUNCTION OF THE NERVOUS SYSTEM. Date noi despre mecanismele nervos-centrale de reglare a funcțiilor în lumina concepției moniste despre organizarea și funcționarea sistemului nervos. Benetato G. Sect. Med., Acad. R. P. R., Cluj. STUD. CERC. MED. (Cluj) 1956,

771-4 (29-46)

The specific and non-specific somatic and visceral afferent pathways are described, with emphasis on their convergence in the subcortical regions and the cerebral cortex, in neurons also common to the cortical stimulation pathways. On the basis of these anatomical arrangements it is easier to understand the mechanisms whereby the confrontation of exteroceptive and interoceptive stimuli and the conjugation of vegetative and somatic effects are effected, both in the establishment of preceptive and effective relations equilibrated with the external medium and in the regulation of organ activities and the maintenance of homeostasis in general. The convergence nuclei and the non-specific afferent and efferent fibres are condensed into a special formation which extends upwards in the central portion of the CNS as far as the basal ganglion and the cerebral cortex and downwards as far as the spinal cord, forming what is known as the reticular system. This reticular formation may be regarded as a secondary plurisynaptic path, over which all non-specific afferents (including those from the sense organs) are transmitted to the subcortical formations and the cerebral cortex, influencing the functional state of the cortex, and over which the cortical impulses are transmitted in a diffuse and indirect manner to the subjacent regions including the spinal neurons, influencing their tonus and the muscular activity and visceral function. The available anatomical and functional data indicate that the basic electrical potential of the cervical cortex - expression of its state of tonus - is maintained by a continuous circuit of nervous impulses from cortex to thalamus and vice versa. Thus the cerebral cortex participates in the maintenance of the waking state by a functional synergism with the reticular substance acting in a cortico-reticulo-cortical circuit. Activation of cortical function may also take place by the humoral route, via variations of sympathetic tonus which influence the adrenaline level, in-

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fluencing cortical tonus by the intermediary of the reticular formation. New data on humoral activation of the reticular formation - and by its intermediary the cerebral cortex - are in perfect accordance with Orbell's concept of the adaptive-trophic role of the sympathetic system. The data reported here permit the conclusion that the closer we approach to the cortex the more the morphological and functional differences - so marked in the spinal cord - between the somato-visceral systems and mechanisms of regulation become blunted, these finally merging in the cortex to form a unitary system of coordination and adaptation of all functions. Pavlov launched the monistic conception of the organization and function of the nervous system on the basis of conditioned-reflex studies which made it possible to demonstrate the peculiarities of regulation systems. It is only in the light of this monistic conception and by taking into account the close anatomico-functional connections existing between the cortex and the subcortical formations that it will be possible to understand the mechanisms whereby vegetative components of an individually-acquired act of behaviour become integrated in the biological sense of reaction, to say nothing of the modes in which every change occurring in the 'milieu interne' and the interior economy influences the behaviour of the animal in the sense of the satisfaction of its needs.

RUMANIA / General Problems of Pathology: Allergies

U-3

Abs Jour : Ref Zhur - Biol., No. 10, 1958, No 46725

Author : Benetato, Gr.; Vitebschi, V.; Petru Miulescu, V.; Budai, R.

Inst : Academy of Sciences People's Republic of Rumania, Section of Medicine.

Title : The Influence of Anti-Allergic and Neuroplegic Substances upon the Activity of the Mobile and Fixed Phagocytic Systems.

Orig Pub : Studii si cercetari med. Acad. FPR Fil. Cluj, 1956, 7, No. 1-4, 47-60.

Abstract : The function of mobile and fixed phagocytic systems in 74 rats was determined by the method of Uorda and Gal'pern. Chlorpromazine and phenegan inhibited the phagocytic function (PhF) of the reticulo-endothelial system (RES) and of mobile phagocytes. Phenothiazine depressed the reaction

Card 1/2

BENEFATO, Gr.; VITEBSCHI, V.; NEUMAN, B.; BUDAI, R.

Study of the neurohumoral mechanism of regulation of immunobiological processes. Bul. stint., sect. med. 8 no.2:327-337
Apr-June 56.

(IMMUNITY

neurohumoral mechanism of regulation of immunobiol. processes, eff. of adrenalectomy, adrenal hormones & neuroplegic drugs, in rats)

(RETICULOENDOTHELIAL SYSTEM, physiol.

(SAME))

(ADRENAL GLANDS, physiol.

eff. on regulation of immunobiol. processes, in rats).

(CHLORPROMAZINE, eff.

on neurohumoral regulation of immunobiol. processes, in rats)

RUMENI/ Human and Animal Physiology. Nervous System. General Problems. T

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93579.

Author : ~~Denetato, G.~~, Denetato, A., Vitebschi, V.

Inst : AS RPR

Title : A Test for Phagocytic Provocation in the Investigation of Vegetative Centers of the Diencephalon.

Orig. Pub: Bul stint. Acad. RPR. Sec. med., 1956, 8, No 3, 603-623.

Abstract: 1½ hours after a 10 minute-long irradiation by ultra-short-waves of the hypothalamic area of a dog, one found an increase in the number of blood leucocytes and phagocytic activity (PA), hyperglycemia and a rise in blood pressure. This so-called provoked phagocytic reaction (PPR) was reduced by first ad-

Card : 1/3

RENNEL/Moran and Animal Physiology. Nervous System. General Problems.

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Abs Jour: Ref Zhur-Biol., No 20, 1958, 93579.

administering a large dose of lurdinal to the animal; consequently, this stimulated the hypothalamus. PPR was observed after both sides of the heads of healthy adults and children (except for nurslings) were irradiated but was absent in patients with organic affections of the diencephalon (for instance, in craniopharyngioma or basal neuroangioma, etc). The aggravation of leukocytosis and PI was observed in both pituitary insufficiency and when hyperglycemia was absent, which attests to the fact that PPR is immediately produced in the hypothalamic-osteomedullary tract without the participation of the pituitary gland. With the aid of PPR it is possible to differentiate between organic changes of the diencephalic syndrome

Card : 2/3

RUMBLE/Human and Animal Physiology. Nervous System. General Problems. T

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93579.

and pituitary insufficiency. In thyroid and particularly bone marrow insufficiencies PFT is negative; in brain cortical irritation and neurosis negative or inconsistent results may be produced. -- P.L. Dukh.

Card : 3/3

BENETATO, P.

~~BENETATO, Gr.~~, akademik (Rumyniya, g.Klush); ~~OPHISHIU, K.~~ (Rumynia, g.Klush);
~~TODORASH, T.~~ (Rumyniya, g.Klush); ~~KON-DARVENKO, V.~~ (Rumyniya ,
g. Klush)

Role of the central nervous system in regulating the secretory activity
of the parathyroid glands. [with summary in English, p.124-125
Mr-Apr '57. (MIRA 10:10)

1. Iz kafedry fiziologii Klushskogo meditsinskogo instituta
(Rumynskaya Narodnaya Respublika).

(PARATHYROID GLANDS, physiol.

role of CNS in regulation of secretory activity (Rus))

(CENTRAL NERVOUS SYSTEM, physiol.

role in regulation of secretory activity of parathyroid
glands (Rus))

~~BENEFATO, Gr.~~

Method of creation of isolated brain with intact spinal cord. Rev. sc. med., Bucur. no.2:65-77 1957.

1. Membre de l'academie de la republique populaire roumaine G. Oprisiu et I. Baci.

(CENTRAL NERVOUS SYSTEM

method of creation of isolated brain with intact spinal cord (Fr))

(PHYSIOLOGY

same)

HUMBTATO, Gr.; OPRISIU, C.; BACIU, I.; VASILESCU, V.

Antagonistic effect of adrenalin and chlorpromazine on the vasomotor centers. Bul. stiint., sect. med. 9 no.1:7-18 1957.

(BRAIN, eff. of drugs on
epinephrine & chlorpromazine, on vasomotor centers of
isolated dog brain, mechanism of action)

(EPINEPHRINE, effects
on vasomotor centers of isolated dog brain, mechanism
of action, with chlorpromazine)

(CHLORPROMAZINE, effects
on vasomotor centers of isolated dog brain, with epinephrine,
mechanism of action)

BERNATO, Gr., akademik, BALIU, I., KURDYAN, M. [Cucuzanu, M].

Role of the adrenals in maintaining blood proteins and in antibody formation [with summary in English]. Pat.fisiol. i eksp.terap 2 no.5:11-17 8-0 '58 (MIRA 11:12)

1. Iz Nauchno-issledovatel'skogo meditsinskogo instituta. Klushakiy filial AN, Rumynskaya Narodnaya Respublika.

(BLOOD PROTEINS, physiol.

eff. of adrenalectomy & cortisone (Rus))

(ANTIBODIES,

form., eff. of adrenalectomy & cortisone (Rus))

(ADRENALECTOMY, eff.

on antibody form & blood proteins (Rus))

(CORTISONE, eff.

same (Rus))

EXCERPTA MEDICA Sec 2 Vol 12/6 Physiology June 59

2402. SOME HUMORAL FACTORS OF THE ACTIVITY OF CEREBRAL CENTRES STUDIED BY A NEW METHOD OF PERFUSION OF THE 'ISOLATED HEAD AND BRAIN' - Studiul unor factori umorali ai activității centrilor encefalici cu ajutorul unei metode noi de perfuzie artificială a 'capului și a creierului izolat'. IIa. Despre metabolismul creierului - Bengato G., Vasilescu V., Miulescu V., Grosu L., Ștefănescu E. and Bubulianu E. - REV. FIZICL. 1958, 5/4 (317-320) Graphs 11 Tables 1 Illus. 2

A new method is described for perfusion of the 'isolated head' via the 2 common carotids and of the 'isolated brain' via the common carotids and one vertebral artery, the nervous connections of the brain being maintained in both cases by the spinal cord. Perfusion is effected with heparinized blood free from leucocytes and thrombocytes, diluted with Ringer and oxygenated by a special apparatus. The brain thus perfused maintains normal metabolic activity for 60-90 min., as shown by determination of glucose and oxygen in the outflow and by the persistence of palpebral and pupillary reflexes, pulse, blood pressure and, in particular, of electrical activity (durogram), this diminishing after 90 min. and being slightly activated by noradrenaline. Adrenaline and noradrenaline added to the perfusion fluid diminish the throughput greatly (vasoconstrictor effect) in the isolated head but only very slightly in the isolated brain. Vagal stimulation causes a rise of arterial pressure in the general circulation; it does not influence the adrenaline content of the perfusing blood but greatly increases its noradrenaline content, still more so if reserpine is added to the perfusion fluid. The 'isolated brain' method is suitable for the study of chemical and humoral mechanisms of cerebral activity and also, thanks to the preservation of nervous connections, for the study of cerebral reflexes. Graur - Bucharest (II, 8*)

EXCERPTA MEDICA Sec 2 Vol 12/9 Physiology Sept 59

4308. HUMORAL FACTORS IN THE ACTIVITY OF CEREBRAL CENTRES STUDIED BY THE METHOD OF ARTIFICIAL PERFUSION OF THE ISOLATED HEAD AND BRAIN - Etude de certains facteurs humoraux de l'activité des centres encéphaliques grâce à la méthode de la perfusion artificielle de la tête et du cerveau isolés - Benetato Gr., Vasilescu V., Miulescu V., Grosu L., Stefanescu E. and Bubulanu E. Inst. de Physiol., Cluj, Roumanie - J. PHYSIOL. (Paris) 1958, 50/5 (889-902) Graphs 11 Tables 1 Illus. 2

The 'isolated head' technique, with preservation of the spinal cord, as developed some years ago in this Institute (Benetato, Oprislu and Baciu) was used as a starting point for some new techniques of artificial perfusion of the 'isolated head' and 'isolated brain' of the dog. With an artificial circulation and oxygenation system, using heparinized blood devoid of formed elements such as perfusion fluid, perfusion of the 'isolated head' was effected via the common carotid arteries and that of the 'isolated brain' via a vertebral artery and the internal carotid and occipital arteries. It was shown that the brain perfused in this manner retains normal metabolic activity for about 1.5 hr., while showing all objective signs of normal function, especially as regards bioelectric phenomena. The fact that it ensures humoral isolation of the brain from the rest of the organism while preserving its normal metabolic processes renders this perfusion of the 'isolated brain' especially suitable for investigations of the chemical and humoral mechanisms underlying cerebral activity, while at the same time the preservation of the spinal cord intact permits a study of the reflex mechanisms having their site in the brain. The value of this method is demonstrated by the investigations reported here, which have provided new evidence of the existence of an adrenergic mechanism in the cerebral centres.

BENETATO, Gr., Academician

Role of the corticesuprarenal gland in the metabolism of proteins.
Studii cerc.fisiol. 4 no.3:281-291 '59. (HBAI 9:5)

1. Institutul de fiziologie normala si patologica "Prof. Dr. D.
Danielopolu" al Academiei R.P.R. (ADRENAL GLANDS) (PROTEINS)

BENETATO, Gr., acad.; TOMUS, L.; GROSU, L.; BUBUIANU, Elena; ULIUTU, M.

Studies related to the functioning mechanisms and physiological significance of the systems of chemical transmission on the level of the superior organovegetative centers. Studii cerc fiziol 4 no.4:449-465 '59. (EBAI 9:9)

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(PERFUSION)
(ADRENALINE)
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(ARTERENOL)
(AMINOETHYLINDOLOL)

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(PHAGOCYTES)
(STIMULANTS)
(BARIUM SULFATE)
(ALUMINUM HYDROXIDE)
(METHANOL)

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(HISTOCHEMISTRY)
(BIOCHEMISTRY)
(ENCEPHALOMYELITIS)
(ALLERGY)
(METABOLISM)
(PROTEINS)

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